TOSHIBA 1815260

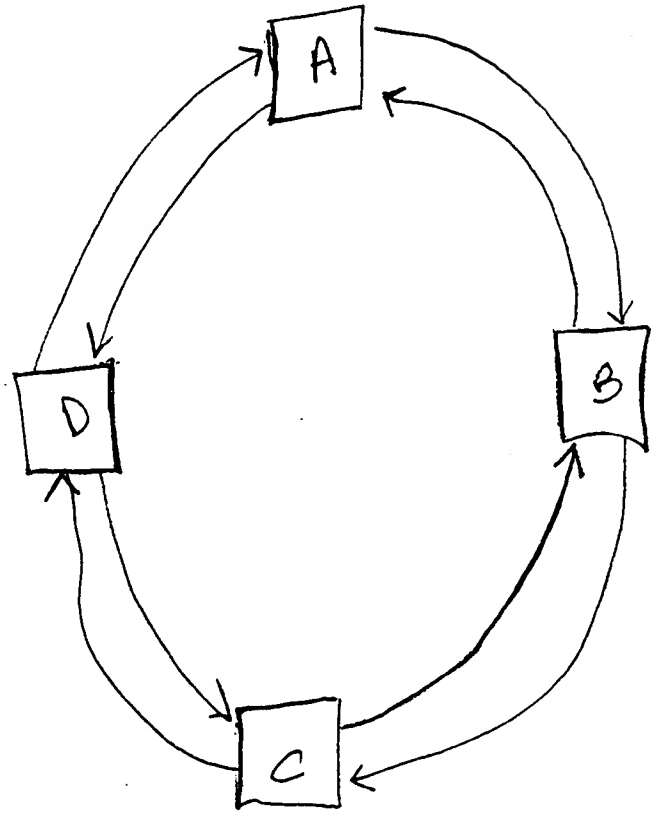

Fig. 1a
(Prior art)

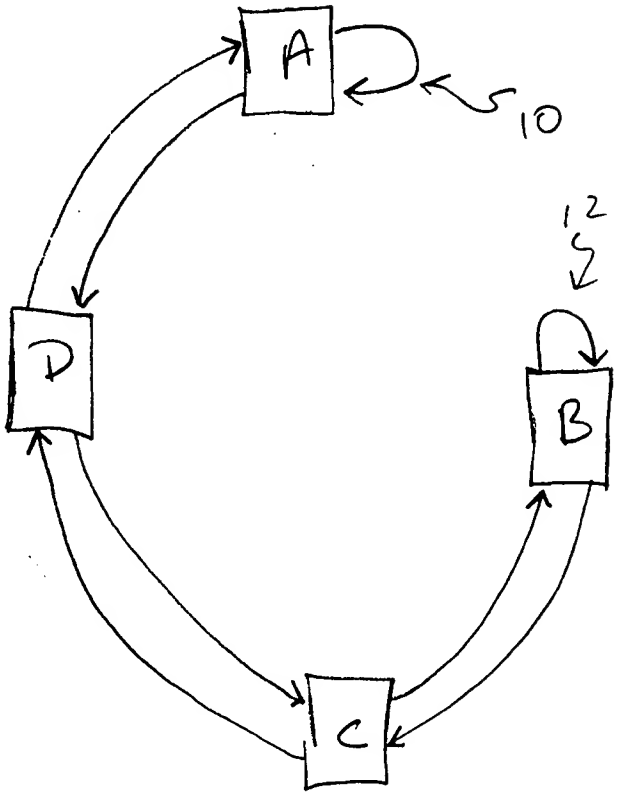

Fig. 1b
(Prior art)

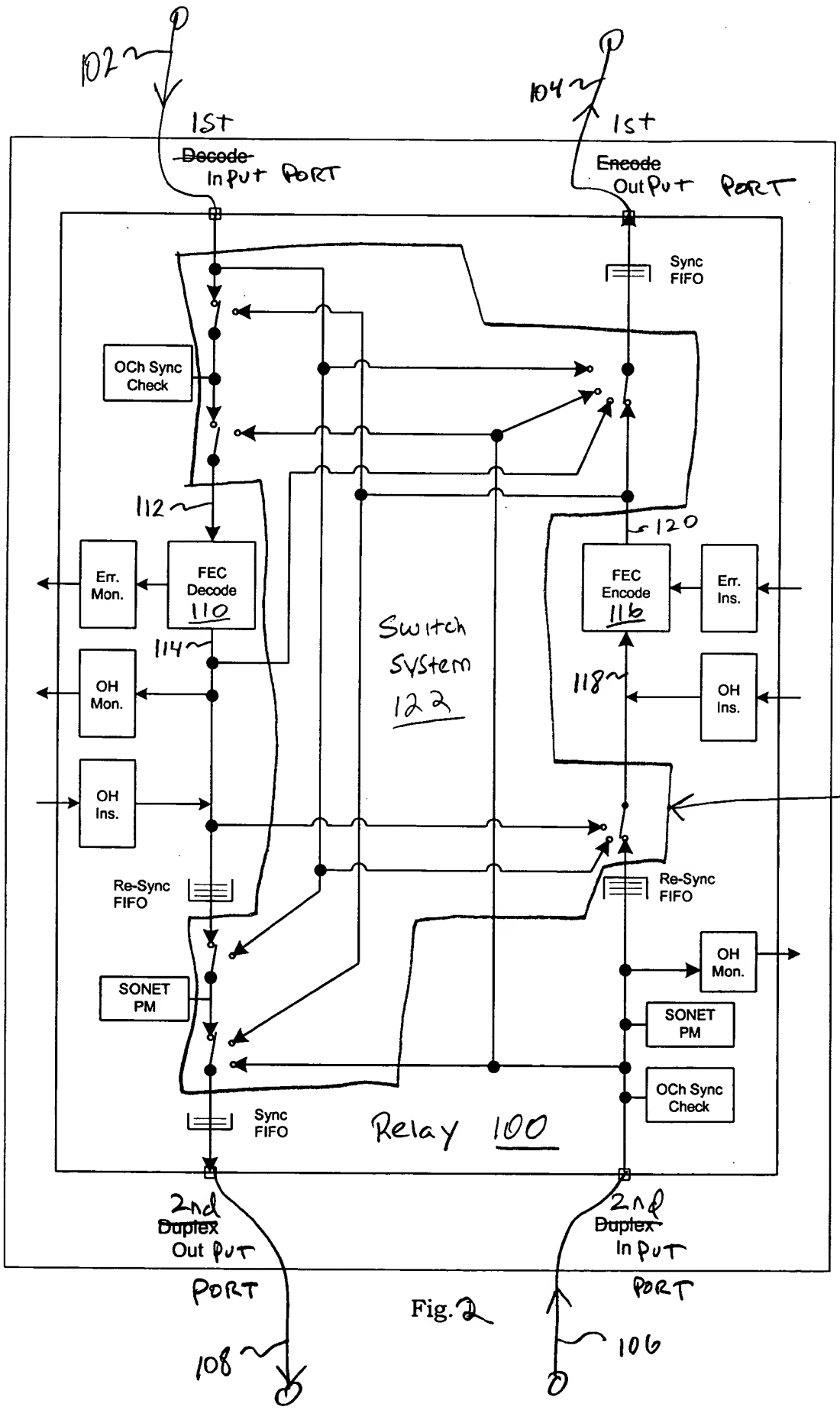
102
1st
~~Decode~~ Input PORT
104
1st
~~Encode~~ Output PORT
Sync FIFO
OCh Sync Check
112
120
Err. Mon.
FEC Decode 110
FEC Encode 116
Err. Ins.
Switch System 122
114
118
OH Mon.
OH Ins.
OH Ins.
124
Re-Sync FIFO
Re-Sync FIFO
OH Mon.
SONET PM
SONET PM
OCh Sync Check
Sync FIFO
Relay 100
2nd ~~Duplex~~ Output PORT
2nd ~~Duplex~~ Input PORT
108
106

Fig. 2

1st mode

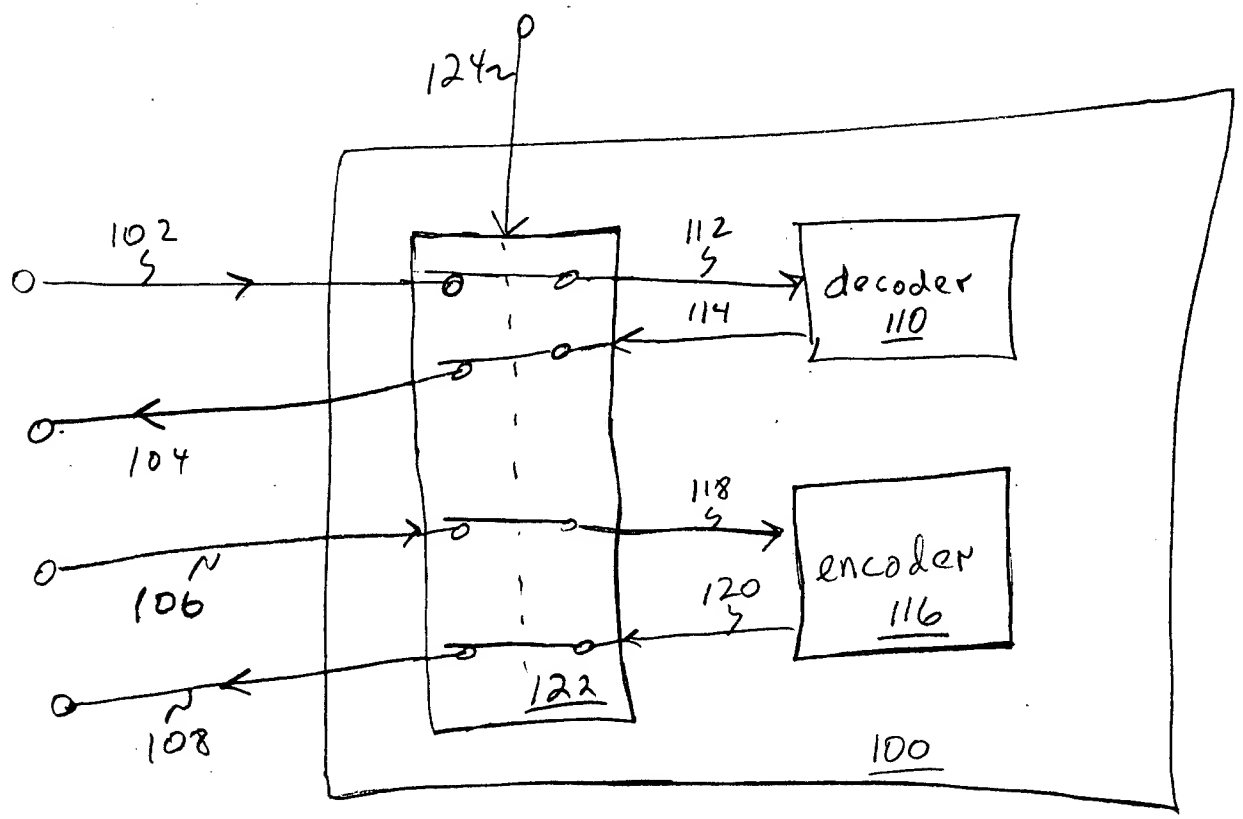

Fig. 3

Fig. 4

2nd Mode

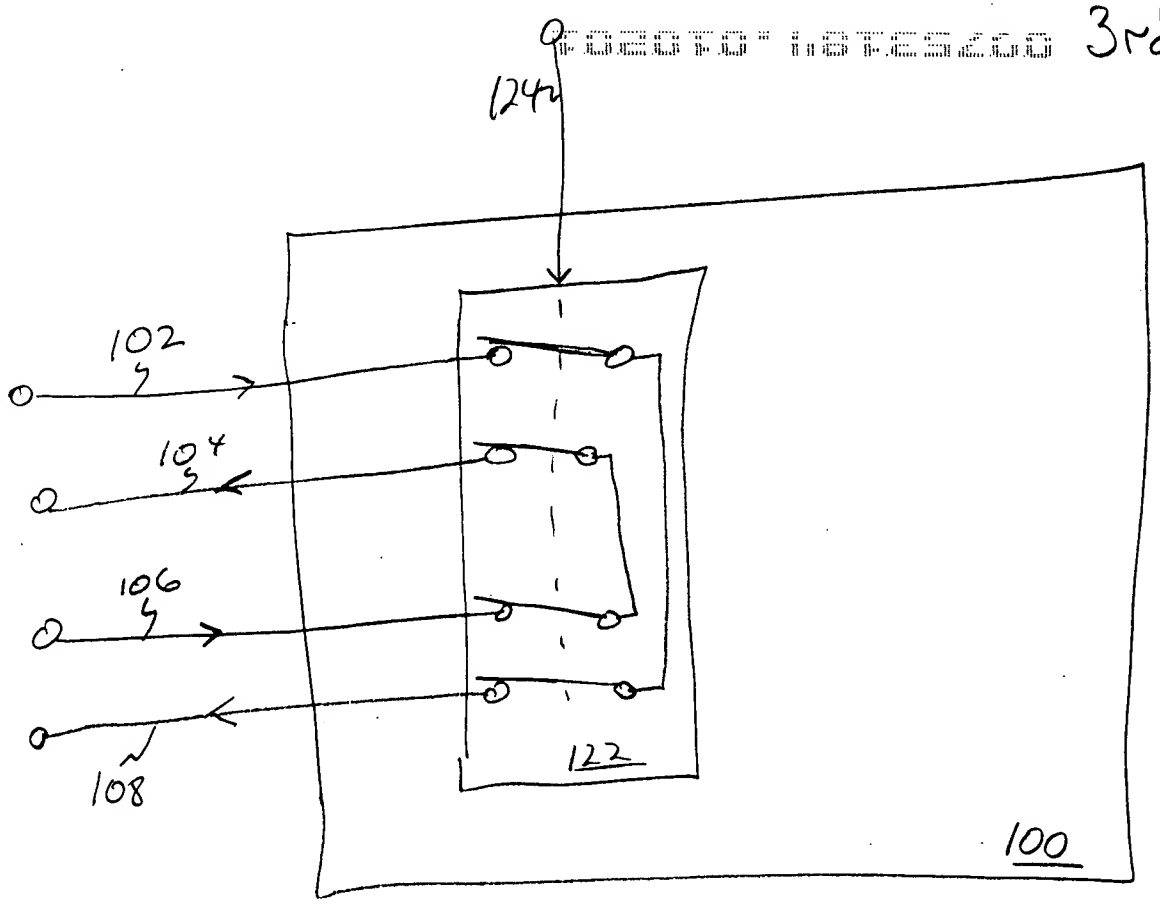

Fig. 5

TOSHIBA 1.8TCS200

4th Mode

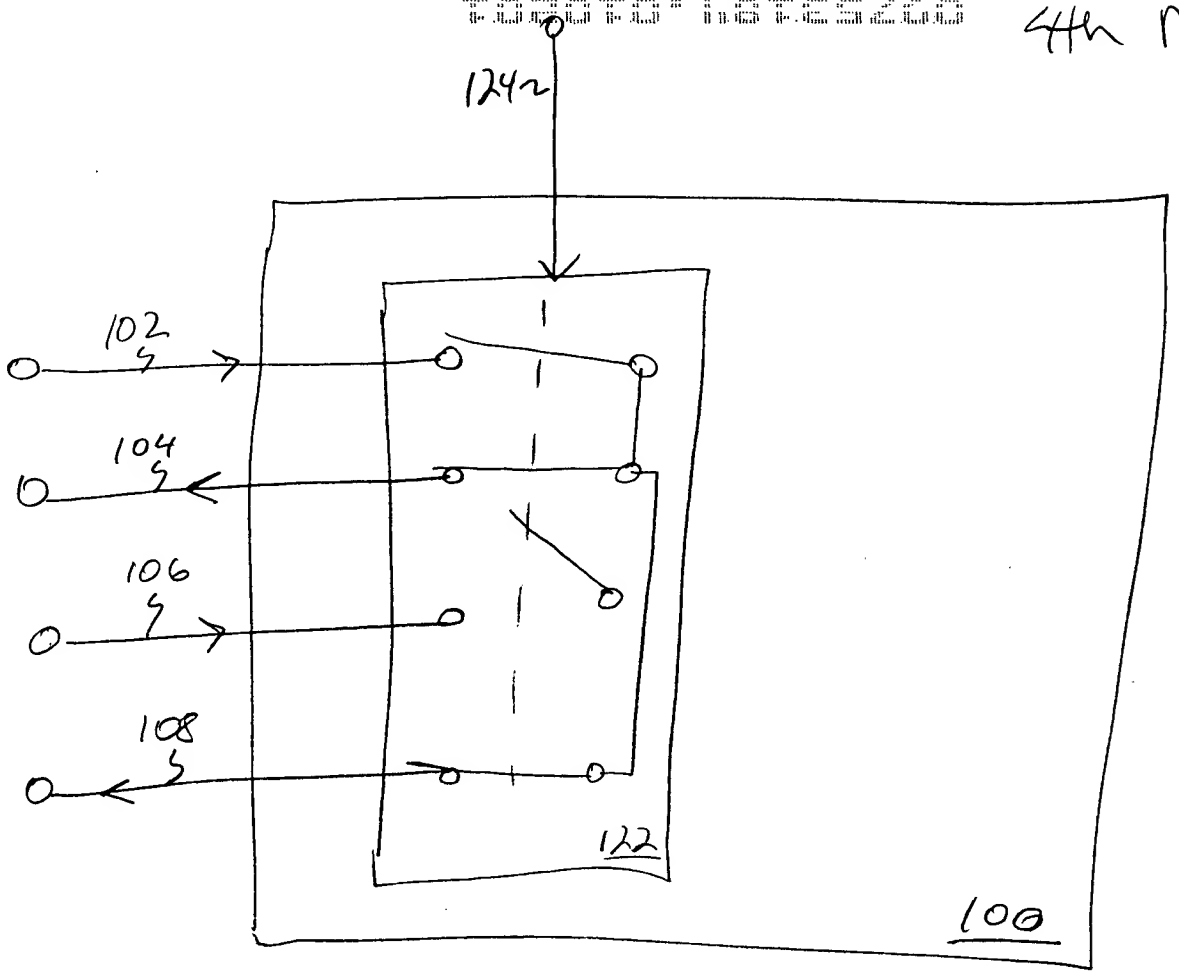

Fig. 6

5th mode

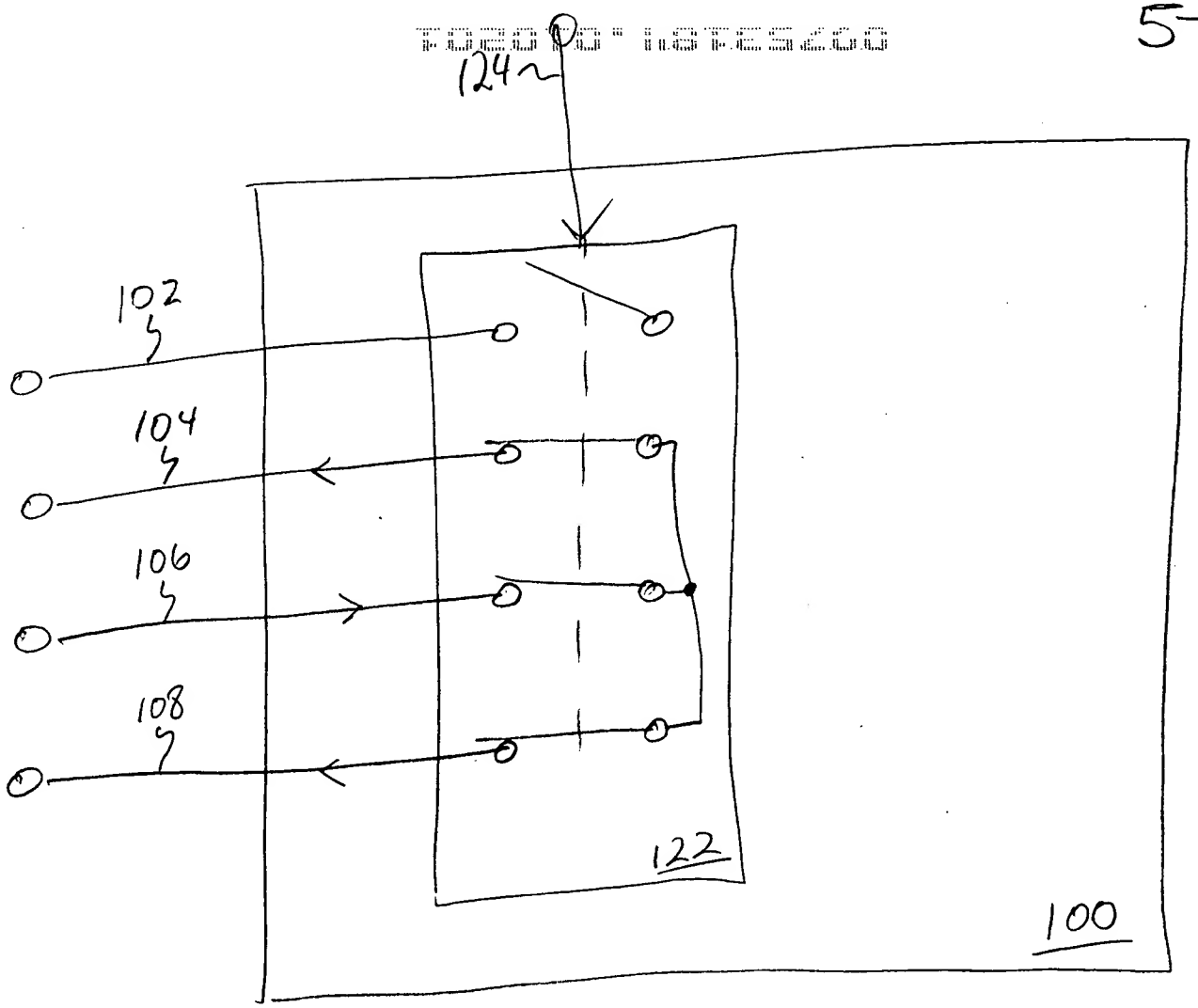

Fig. 7

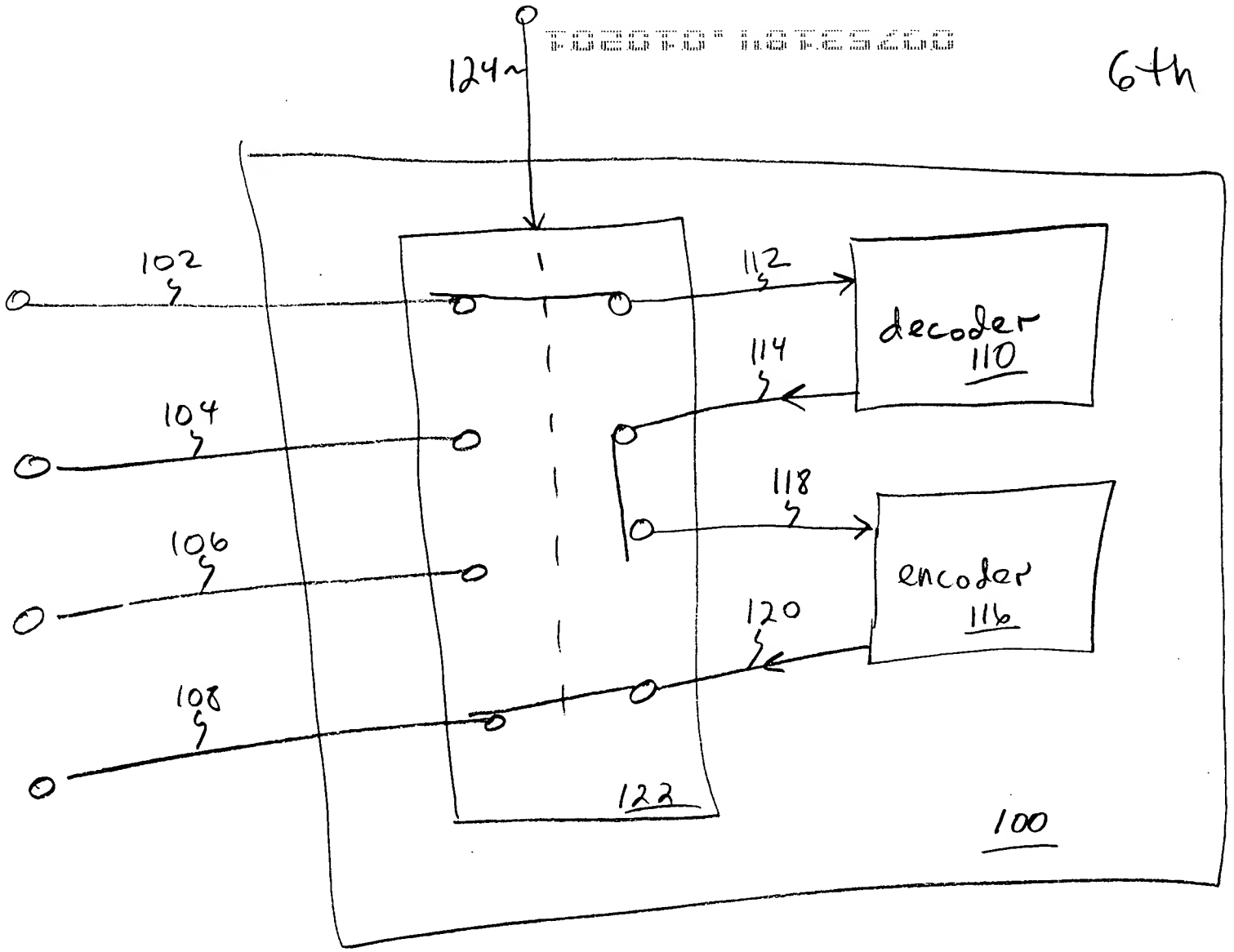
124
6th mode
102
112
decoder
110
114
104
118
106
encoder
116
120
108
122
100

Fig. 8

7th MODE

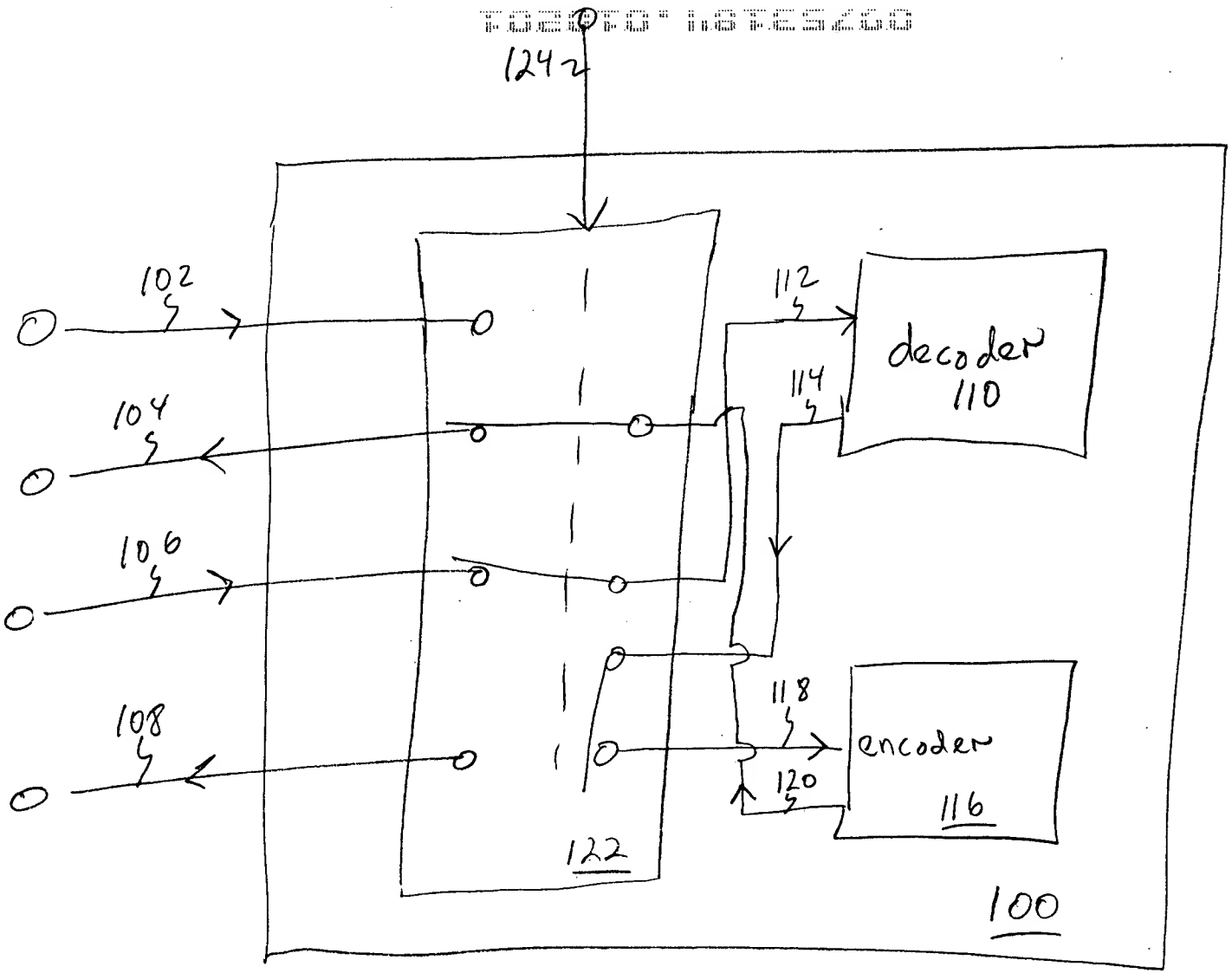

Fig. 9

8th mode

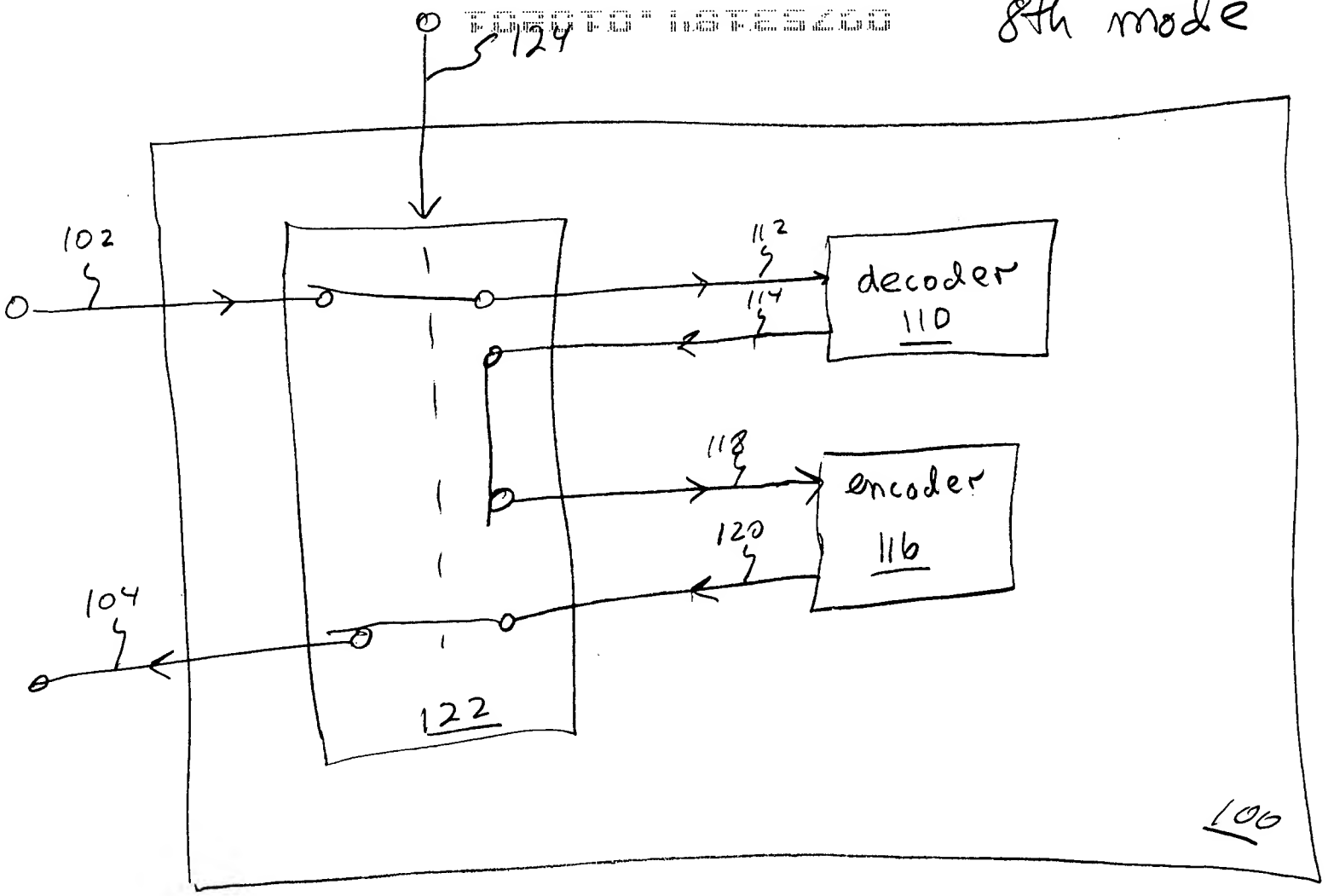

Fig. 10

10th mode

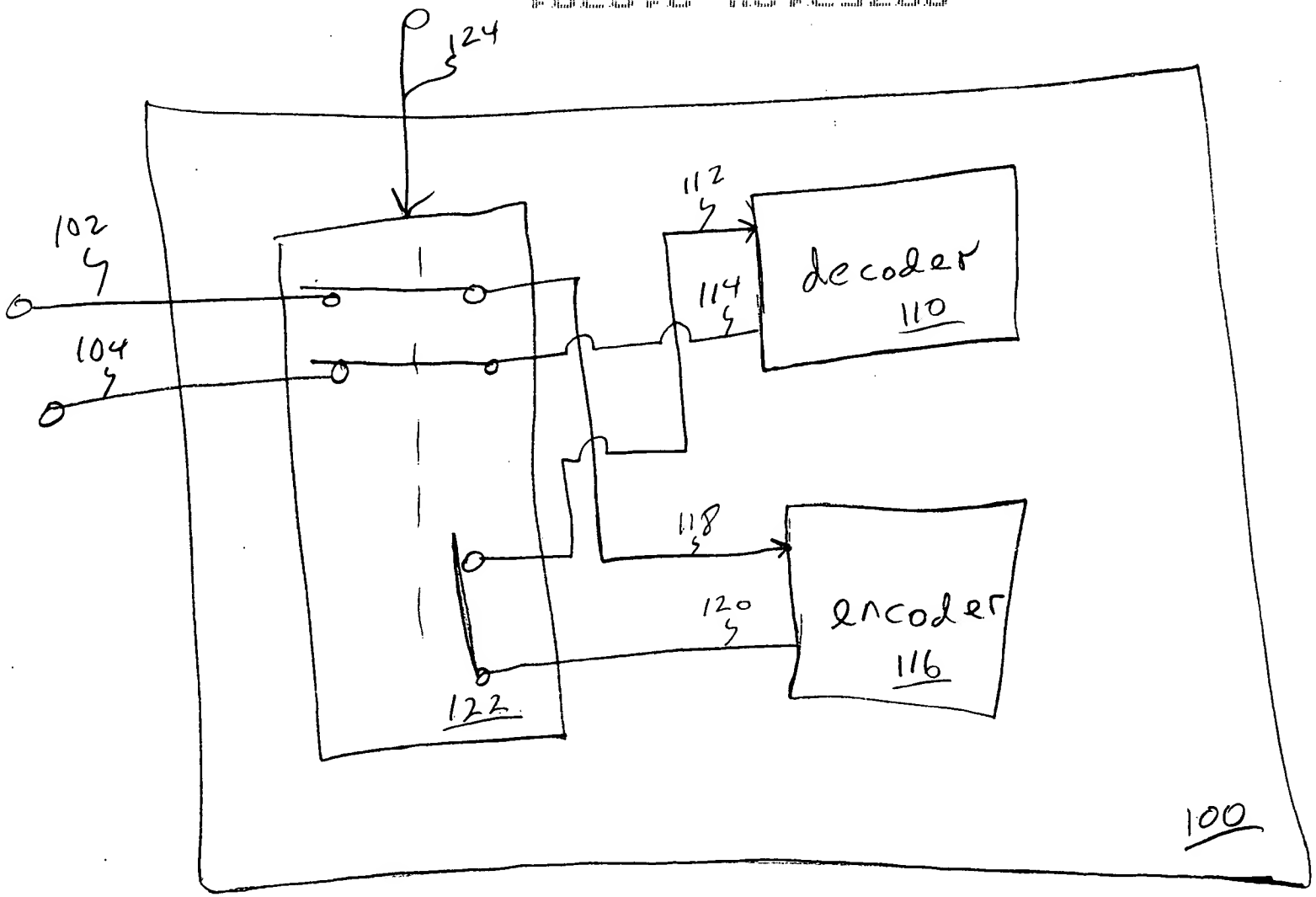

Fig. 11

12th mode

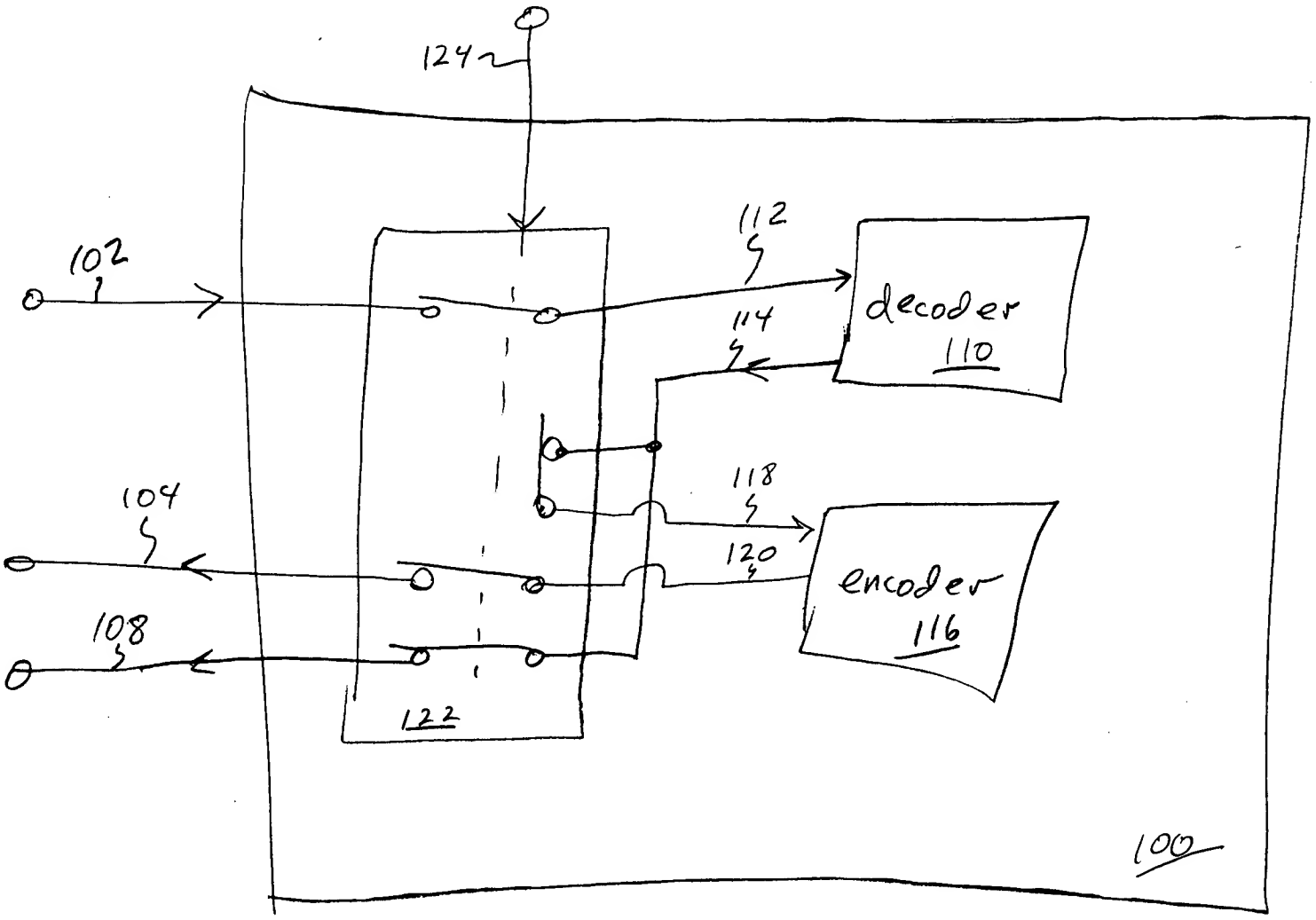

Fig. 12

13th MODE

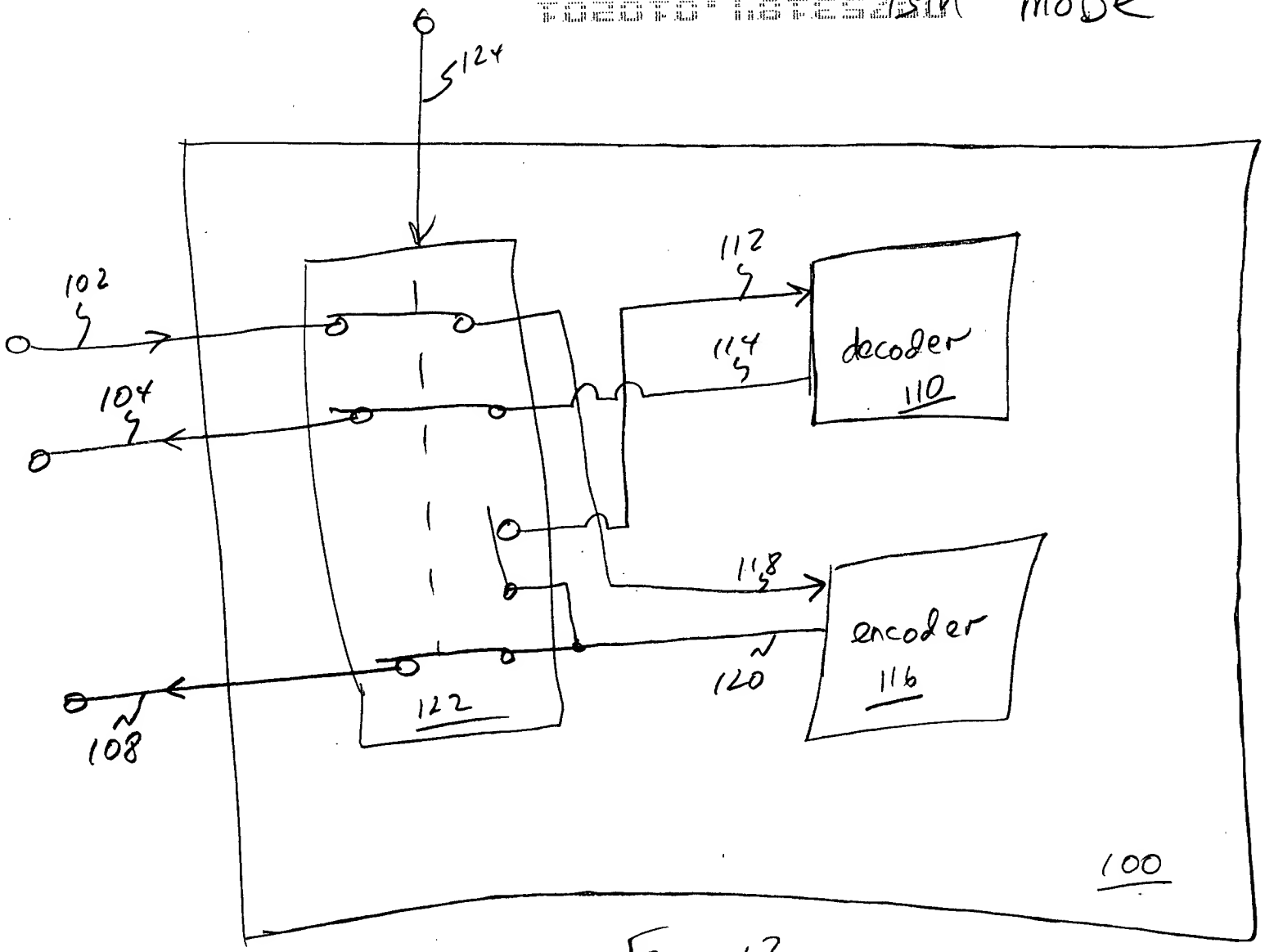

Fig. 13

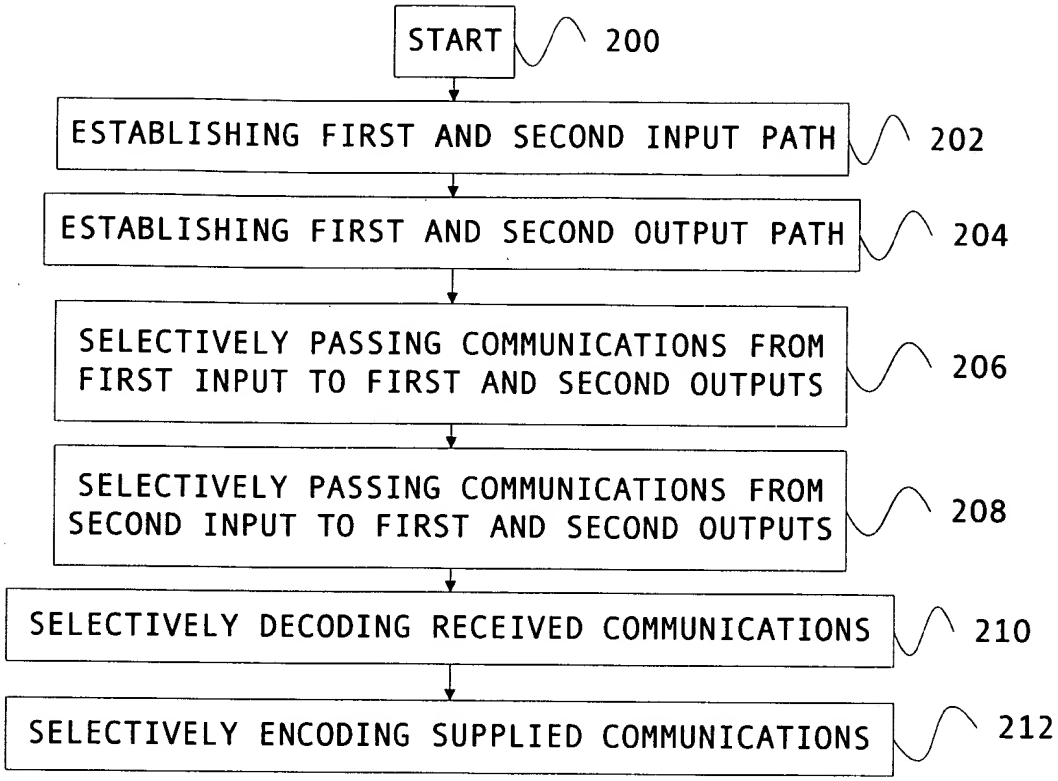
START
200
ESTABLISHING FIRST AND SECOND INPUT PATH
202
ESTABLISHING FIRST AND SECOND OUTPUT PATH
204
SELECTIVELY PASSING COMMUNICATIONS FROM FIRST INPUT TO FIRST AND SECOND OUTPUTS
206
SELECTIVELY PASSING COMMUNICATIONS FROM SECOND INPUT TO FIRST AND SECOND OUTPUTS
208
SELECTIVELY DECODING RECEIVED COMMUNICATIONS
210
SELECTIVELY ENCODING SUPPLIED COMMUNICATIONS
212

FIG. 14

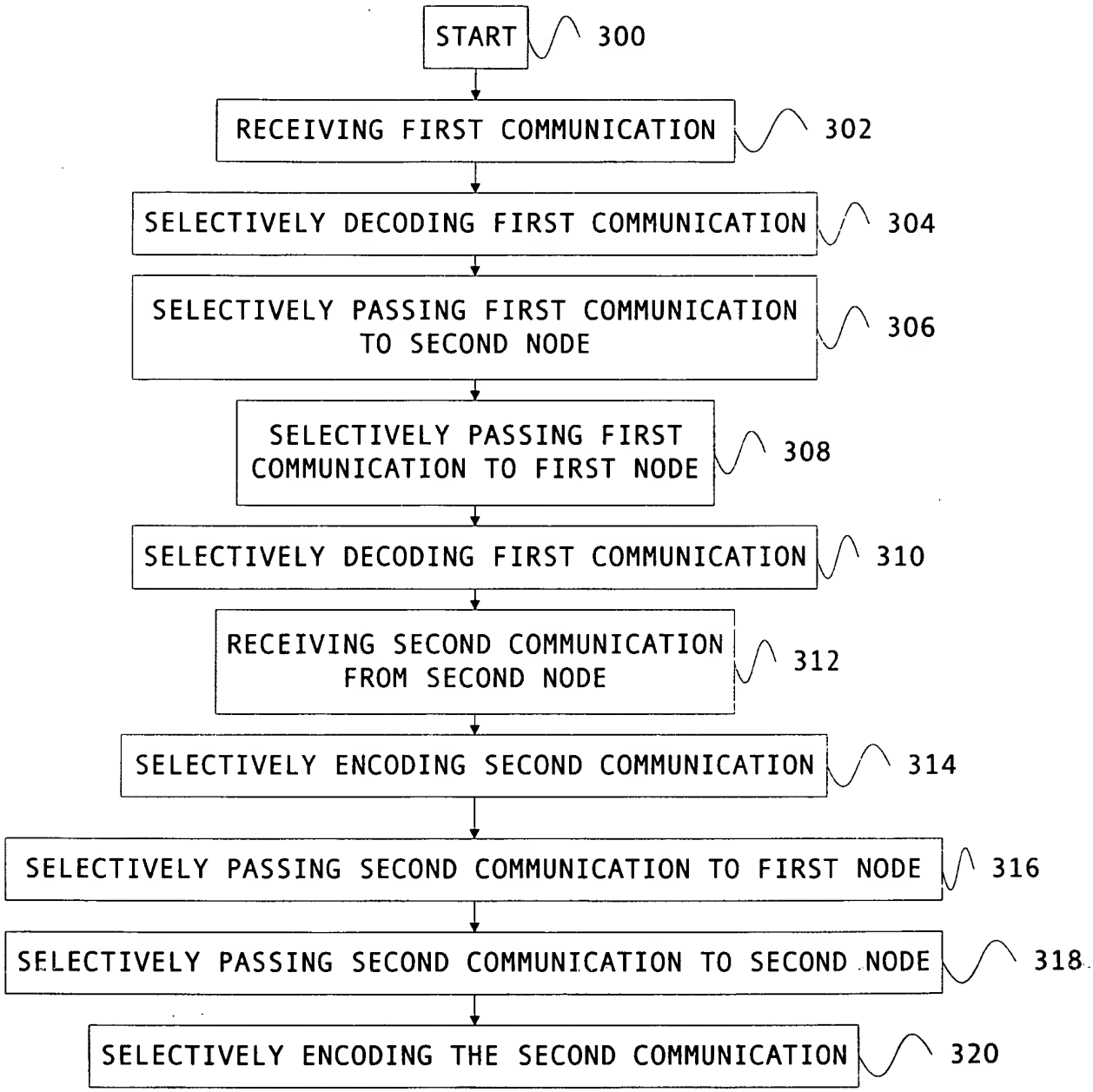
START
300
RECEIVING FIRST COMMUNICATION
302
SELECTIVELY DECODING FIRST COMMUNICATION
304
SELECTIVELY PASSING FIRST COMMUNICATION TO SECOND NODE
306
SELECTIVELY PASSING FIRST COMMUNICATION TO FIRST NODE
308
SELECTIVELY DECODING FIRST COMMUNICATION
310
RECEIVING SECOND COMMUNICATION FROM SECOND NODE
312
SELECTIVELY ENCODING SECOND COMMUNICATION
314
SELECTIVELY PASSING SECOND COMMUNICATION TO FIRST NODE
316
SELECTIVELY PASSING SECOND COMMUNICATION TO SECOND NODE
318
SELECTIVELY ENCODING THE SECOND COMMUNICATION
320

FIG. 15